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<p>(21) International Application Number: PCT/US98/24001</p> <p>(22) International Filing Date: 10 November 1998 (10.11.98)</p> <p>(30) Priority Data:</p> <table> <tr><td>08/966,932</td><td>10 November 1997 (10.11.97)</td><td>US</td></tr> <tr><td>08/966,987</td><td>10 November 1997 (10.11.97)</td><td>US</td></tr> <tr><td>08/967,148</td><td>10 November 1997 (10.11.97)</td><td>US</td></tr> <tr><td>08/967,403</td><td>10 November 1997 (10.11.97)</td><td>US</td></tr> <tr><td>08/967,708</td><td>10 November 1997 (10.11.97)</td><td>US</td></tr> <tr><td>08/976,741</td><td>24 November 1997 (24.11.97)</td><td>US</td></tr> <tr><td>60/089,580</td><td>17 June 1998 (17.06.98)</td><td>US</td></tr> <tr><td>60/089,581</td><td>17 June 1998 (17.06.98)</td><td>US</td></tr> <tr><td>09/100,521</td><td>18 June 1998 (18.06.98)</td><td>US</td></tr> <tr><td>09/100,529</td><td>18 June 1998 (18.06.98)</td><td>US</td></tr> <tr><td>09/100,631</td><td>18 June 1998 (18.06.98)</td><td>US</td></tr> <tr><td>09/100,762</td><td>18 June 1998 (18.06.98)</td><td>US</td></tr> <tr><td>09/100,763</td><td>18 June 1998 (18.06.98)</td><td>US</td></tr> <tr><td>09/100,764</td><td>18 June 1998 (18.06.98)</td><td>US</td></tr> </table> <p>(71) Applicants (for all designated States except US): DANA-FARBER CANCER INSTITUTE [US/US]; 44 Binney Street, Boston, MA 02115 (US). THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK [US/US]; West 116th Street &amp; Broadway, New York, NY 10027 (US).</p>		08/966,932	10 November 1997 (10.11.97)	US	08/966,987	10 November 1997 (10.11.97)	US	08/967,148	10 November 1997 (10.11.97)	US	08/967,403	10 November 1997 (10.11.97)	US	08/967,708	10 November 1997 (10.11.97)	US	08/976,741	24 November 1997 (24.11.97)	US	60/089,580	17 June 1998 (17.06.98)	US	60/089,581	17 June 1998 (17.06.98)	US	09/100,521	18 June 1998 (18.06.98)	US	09/100,529	18 June 1998 (18.06.98)	US	09/100,631	18 June 1998 (18.06.98)	US	09/100,762	18 June 1998 (18.06.98)	US	09/100,763	18 June 1998 (18.06.98)	US	09/100,764	18 June 1998 (18.06.98)	US	<p>(72) Inventors; and</p> <p>(75) Inventors/Applicants (for US only): SODROSKI, Joseph, G. [US/US]; 10 Ashland Place, Medford, MA 02155 (US). WYATT, Richard, T. [US/US]; 11 Delphi Circle, Andover, MA 01810 (US). KWONG, Peter, D. [US/US]; Apartment 403, 352 West 15th Street, New York, NY 10011 (US). HENDRICKSON, Wayne, A. [US/US]; 161 Mt. Hope Boulevard, Hastings-on-Hudson, NY 10706 (US). FARZAN, Michael [US/US]; Apartment 6, 108 St. Paul Street, Brookline, MA 02146 (US).</p> <p>(74) Agents: EISENSTEIN, Ronald, I. et al.; Dike, Bronstein, Roberts &amp; Cushman, LLP, 130 Water Street, Boston, MA 02109-4280 (US).</p> <p>(81) Designated States: AU, CA, JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).</p>
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<p>(54) Title: STABILIZED PRIMATE LENTIVIRUS ENVELOPE GLYCOPROTEINS</p> <p>(57) Abstract</p> <p>A modified polypeptide corresponding to an envelope glycoprotein of a primate lentivirus is described. The polypeptide has been modified from the wild-type structure so that it has cysteine amino acid residues introduced to create disulfide bonds, a cavity is filled with hydrophobic amino acids, a Proresidue is introduced at a defined turn structure of the protein, or the hydrophobicity is increased across the interface between different domains, while retaining the overall 3-dimensional structure of a discontinuous conserved epitope of the wild-type protein. Preferably, the polypeptide has more than one of those characteristics. Preferably, the primate lentivirus is HIV, and the protein is HIV-1 gp120.</p>																																												

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